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RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/511,914A
Source: PCT
Date Processed by STIC: 1/13/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 01/13/2006

PATENT APPLICATION: US/10/511,914A

TIME: 09:55:19

Input Set : A:\37 Sequence Listing.txt

Output Set: N:\CRF4\01132006\J511914A.raw

3 <110> APPLICANT: Loiler, Scott A.
 4 Flotte, Terrance R.
 5 Muzyczka, Nicholas
 6 Atkinson, Mark
 8 <120> TITLE OF INVENTION: IMPROVED rAAV VECTORS
 10 <130> FILE REFERENCE: 36689.37
 12 <140> CURRENT APPLICATION NUMBER: 10/511,914A
 13 <141> CURRENT FILING DATE: 2004-10-18
 15 <150> PRIOR APPLICATION NUMBER: PCT/US03/12225
 16 <151> PRIOR FILING DATE: 2003-04-17
 18 <150> PRIOR APPLICATION NUMBER: 60/373,419
 19 <151> PRIOR FILING DATE: 2002-04-17
 21 <160> NUMBER OF SEQ ID NOS: 49
 23 <170> SOFTWARE: PatentIn version 3.3
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 13
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Homo sapiens
 30 <400> SEQUENCE: 1
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 33 1 5 10
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 13
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Homo sapiens
 41 <400> SEQUENCE: 2
 43 Ser His Leu Arg Lys Leu Arg Glu Arg Leu Leu Arg Asp
 44 1 5 10
 47 <210> SEQ ID NO: 3
 48 <211> LENGTH: 13
 49 <212> TYPE: PRT
 50 <213> ORGANISM: Pupaia glis
 52 <400> SEQUENCE: 3
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 55 1 5 10
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 59 <211> LENGTH: 13
 60 <212> TYPE: PRT
 61 <213> ORGANISM: Bos taurus
 63 <400> SEQUENCE: 4
 65 Ser His Leu Arg Lys Leu Pro Lys Arg Leu Leu Arg Asp
 66 1 5 10
 69 <210> SEQ ID NO: 5

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71 <212> TYPE: PRT
72 <213> ORGANISM: Homo sapiens
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82 <212> TYPE: PRT
83 <213> ORGANISM: Canis familiaris
85 <400> SEQUENCE: 6
87 Ser His Met Arg Lys Leu Arg Lys Arg Val Leu Arg Asp
88 1      5      10
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92 <211> LENGTH: 13
93 <212> TYPE: PRT
94 <213> ORGANISM: Rattus norvegicus
96 <400> SEQUENCE: 7
98 Ser His Leu Arg Lys Met Arg Lys Arg Leu Met Arg Asp
99 1      5      10
102 <210> SEQ ID NO: 8
103 <211> LENGTH: 13
104 <212> TYPE: PRT
105 <213> ORGANISM: Mus musculus
107 <400> SEQUENCE: 8
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110 1      5      10
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114 <211> LENGTH: 13
115 <212> TYPE: PRT
116 <213> ORGANISM: Artificial
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Synthetic Peptide
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: (3)..(3)
125 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (5)..(8)
130 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (10)..(11)
135 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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140 1      5      10
143 <210> SEQ ID NO: 10

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146 <213> ORGANISM: Artificial
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Synthetic Peptide
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (3)..(3)
155 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
157 <220> FEATURE:
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159 <222> LOCATION: (5)..(8)
160 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (10)..(11)
165 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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174 <211> LENGTH: 10
175 <212> TYPE: PRT
176 <213> ORGANISM: Homo sapiens
178 <400> SEQUENCE: 11
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181 1 5 10
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185 <211> LENGTH: 10
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
189 <400> SEQUENCE: 12
191 Leu Arg Lys Leu Arg Glu Arg Leu Leu Arg
192 1 5 10
195 <210> SEQ ID NO: 13
196 <211> LENGTH: 10
197 <212> TYPE: PRT
198 <213> ORGANISM: Tupaia glis
200 <400> SEQUENCE: 13
202 Leu Arg Lys Met Arg Lys Arg Leu Leu Arg
203 1 5 10
206 <210> SEQ ID NO: 14
207 <211> LENGTH: 10
208 <212> TYPE: PRT
209 <213> ORGANISM: Bos taurus
211 <400> SEQUENCE: 14
213 Leu Arg Lys Leu Pro Lys Arg Leu Leu Arg
214 1 5 10
217 <210> SEQ ID NO: 15

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218 <211> LENGTH: 10
219 <212> TYPE: PRT
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222 <400> SEQUENCE: 15
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225 1          5          10
228 <210> SEQ ID NO: 16
229 <211> LENGTH: 10
230 <212> TYPE: PRT
231 <213> ORGANISM: Canis familiaris
233 <400> SEQUENCE: 16
235 Met Arg Lys Leu Arg Lys Arg Val Leu Arg
236 1          5          10
239 <210> SEQ ID NO: 17
240 <211> LENGTH: 10
241 <212> TYPE: PRT
242 <213> ORGANISM: Rattus norvegicus
244 <400> SEQUENCE: 17
246 Leu Arg Lys Met Arg Lys Arg Leu Met Arg
247 1          5          10
250 <210> SEQ ID NO: 18
251 <211> LENGTH: 10
252 <212> TYPE: PRT
253 <213> ORGANISM: Mus musculus
255 <400> SEQUENCE: 18
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258 1          5          10
261 <210> SEQ ID NO: 19
262 <211> LENGTH: 10
263 <212> TYPE: PRT
264 <213> ORGANISM: Artificial
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Synthetic Peptide
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (1)..(1)
273 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
275 <220> FEATURE:
276 <221> NAME/KEY: misc_feature
277 <222> LOCATION: (3)..(6)
278 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
280 <220> FEATURE:
281 <221> NAME/KEY: misc_feature
282 <222> LOCATION: (8)..(9)
283 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
285 <400> SEQUENCE: 19
W--> 287 Xaa Arg Xaa Xaa Xaa Arg Xaa Xaa Arg
288 1          5          10
291 <210> SEQ ID NO: 20

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292 <211> LENGTH: 10
293 <212> TYPE: PRT
294 <213> ORGANISM: Artificial
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Synthetic Peptide
300 <220> FEATURE:
301 <221> NAME/KEY: misc_feature
302 <222> LOCATION: (1)..(1)
303 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
305 <220> FEATURE:
306 <221> NAME/KEY: misc_feature
307 <222> LOCATION: (3)..(6)
308 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
310 <220> FEATURE:
311 <221> NAME/KEY: misc_feature
312 <222> LOCATION: (8)..(9)
313 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
315 <400> SEQUENCE: 20
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318 1 5 10
321 <210> SEQ ID NO: 21
322 <211> LENGTH: 18
323 <212> TYPE: PRT
324 <213> ORGANISM: Artificial
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Synthetic Peptide
329 <400> SEQUENCE: 21
331 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Asp Leu Asp Glu
332 1 5 10 15
335 Ala Phe
339 <210> SEQ ID NO: 22
340 <211> LENGTH: 28
341 <212> TYPE: PRT
342 <213> ORGANISM: Artificial
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Synthetic Peptide
347 <400> SEQUENCE: 22
349 Leu Arg Lys Leu Arg Lys Arg Leu Leu Arg Asp Trp Leu Lys Ala Phe
350 1 5 10 15
353 Tyr Asp Lys Val Ala Glu Asp Leu Asp Glu Ala Phe
354 20 25
357 <210> SEQ ID NO: 23
358 <211> LENGTH: 28
359 <212> TYPE: PRT
360 <213> ORGANISM: Artificial
362 <220> FEATURE:
363 <223> OTHER INFORMATION: Synthetic Peptide
365 <400> SEQUENCE: 23
367 Leu Arg Lys Leu Arg Glu Arg Leu Leu Arg Asp Trp Leu Lys Ala Phe

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/13/2006
PATENT APPLICATION: US/10/511,914A TIME: 09:55:21

Input Set : A:\37 Sequence Listing.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. ~~3,5,6,7,8,10,11~~
Seq#:10; Xaa Pos. ~~3,5,6,7,8,10,11~~
Seq#:19; Xaa Pos. ~~1,3,4,5,6,8,9~~
Seq#:20; Xaa Pos. ~~1,3,4,5,6,8,9~~
Seq#:30; Xaa Pos. 1,3,4,5,6,8,9
Seq#:31; Xaa Pos. 1,3,4,5,6,8,9
Seq#:47; Xaa Pos. 1,2,3,4,5,6,7,8

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9,10,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
Seq#:42,43,44,45,46,47,48,49

VERIFICATION SUMMARY

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Input Set : A:\37 Sequence Listing.txt

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L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0